Appendix D
Examples of Drilling Logs

D-I. General

This appendix contains seven examples of drilling logs, five for overburden drilling, and two for rock coring. The appendix also contains examples of logs generated in the boring log data management program (BLDM) (Nash 1993). The examples are not meant to cover all possible subsurface conditions which may be encountered during field investigation but are presented to give direction to the minimum acceptable input to completing drilling logs for the most common drilling activities.

D-2. Preparation of Drilling Logs

Drilling logs should be made of each boring. A similar log will be prepared for each excavation that is constructed for the purpose of characterizing subsurface materials and geologic conditions. The only approved drilling log form for borings is ENG FORM 1836 (March 1971). This form may be used as a continuation sheet or, at the option of the user, ENG FORM 1836-A (June 1967) may be used. The PC-based, menu-driven BLDM provides a means to enter boring information directly into a computer. The BLDM can be used in the field with a laptop computer. BLDM data can be exported to the Intergraph Insight® program in which it can be printed in the ENG FORM 1836 format.

a. Scale. A scale of 1 cm = 0.25 m (1 in. = 2 ft) or larger should be used. A smaller scale may be used where, for example, the boring is advanced without sampling or logging, the upper portion of the log would represent water, or the boring was made to identify some geologic horizon such as top of rock. Other similar exceptions would be allowable.

b. Heading. All logs will have the pertinent division, installation, location, hole number, project identification, elevation, and page number entered on all log sheets. Items 1 through 19 on ENG FORM 1836 should be completed to the fullest extent possible as indicated in the seven examples. Boring numbers will be consecutive for each project. The boring numbers will be proceeded by letter symbols which will identify the method of drilling. These letters are as follows:

A - Auger (Hand or Power)

C - Core

D - Drive

P - Probe

U - Undisturbed (Hydraulic or Rotary)

Additional letters and numbers for boring identification may be used at the user's discretion. Inclusion of the graphic soil symbol in column c is optional.

c. Examples. The drilling log examples of ENG FORM 1836, Figures D-l through D-7, are described as follows:

Figure D-l: Overburden, disturbed, standard penetration test, and auger.

Figure D-2: Overburden, disturbed, drive.

Figure D-3: Overburden, disturbed, auger.

Figure D-4: Overburden, undisturbed, Denison.

Figure D-5: Overburden, undisturbed, Shelby, and auger.

Figure D-6: Rock, disturbed, SPT, and core.

Figure D-7: Rock, core.

Figure D-8: Foundation boring in which geotechnical data were entered into the BLDM, exported to Intergraph Insight®, and printed in the ENG FORM 1836 format.

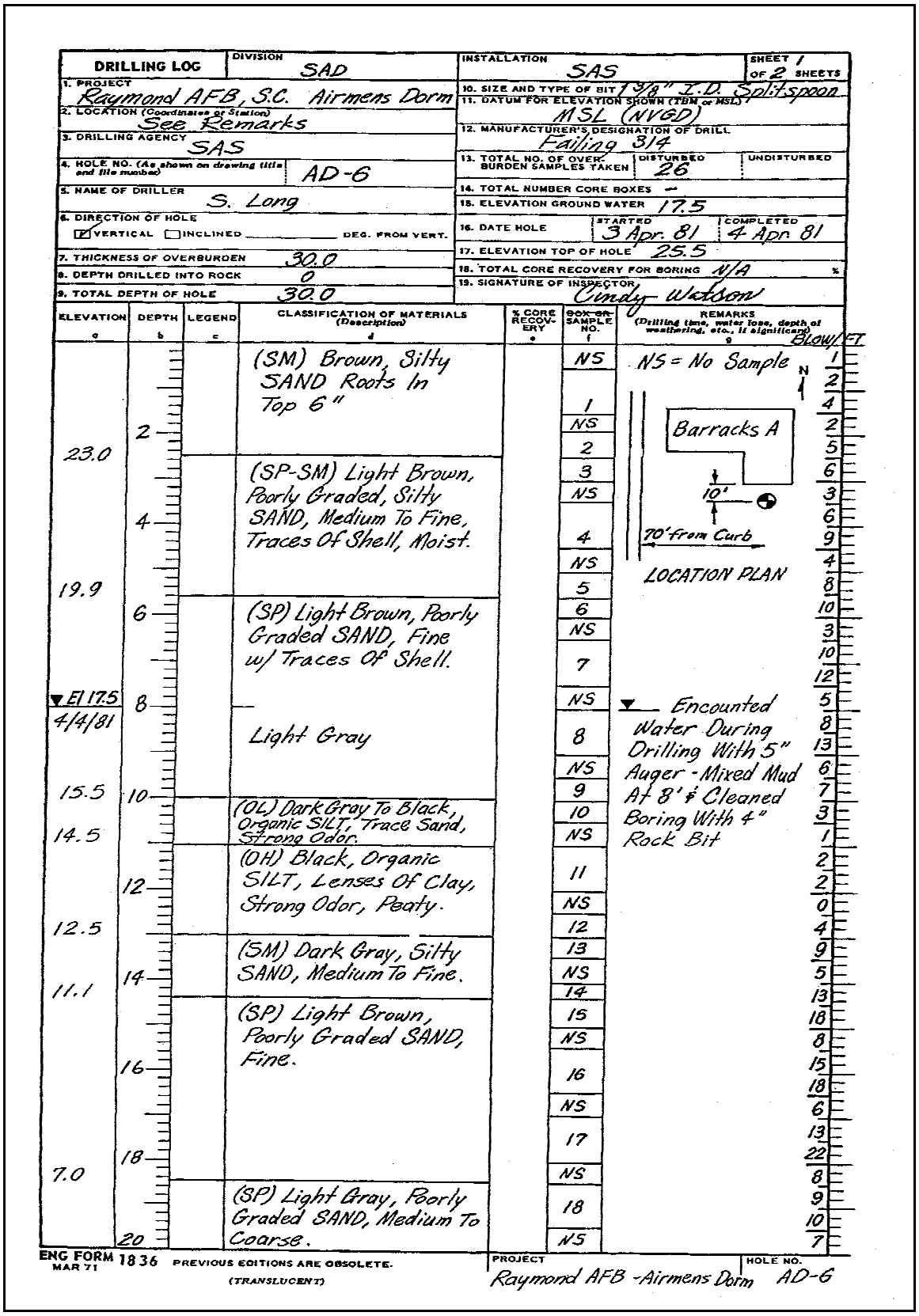

Figure D-1. Example of Form 1836 for overburden, disturbed, SPT, and auger data (Continued)

DRILLING LOG | DIVISION SAD | INSTALLATION 8AS | SHEET 2 OF 2 SHEETS

1. PROJECT: Raymond AFB, Airmens Dorm
2. LOCATION (Coordinates or Station)
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number): AD-6
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN | DISTURBED | UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE | STARTED | COMPLETED
17. ELEVATION TOP OF HOLE 25.5
18. TOTAL CORE RECOVERY FOR BORING %
19. SIGNATURE OF INSPECTOR: Cindy Watson

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	Box or SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			(SP) Light Gray, Poorly Graded SAND, Medium To Coarse.		19	15 19
					NS	6
	22				20	20 25
					NS	10
					21	20
2.0					22	25
	24		Gravelly		NS	11
1.0					23	15 30
			(CL) Brownish Gray, Sandy CLAY, Stiff To Hard, Shelly, Moist.		NS	10
	26				24	18 32
					NS	11
					25	15 26
	28				NS	8
					26	21 50
-4.5						
	30		Bottom Of Boring			

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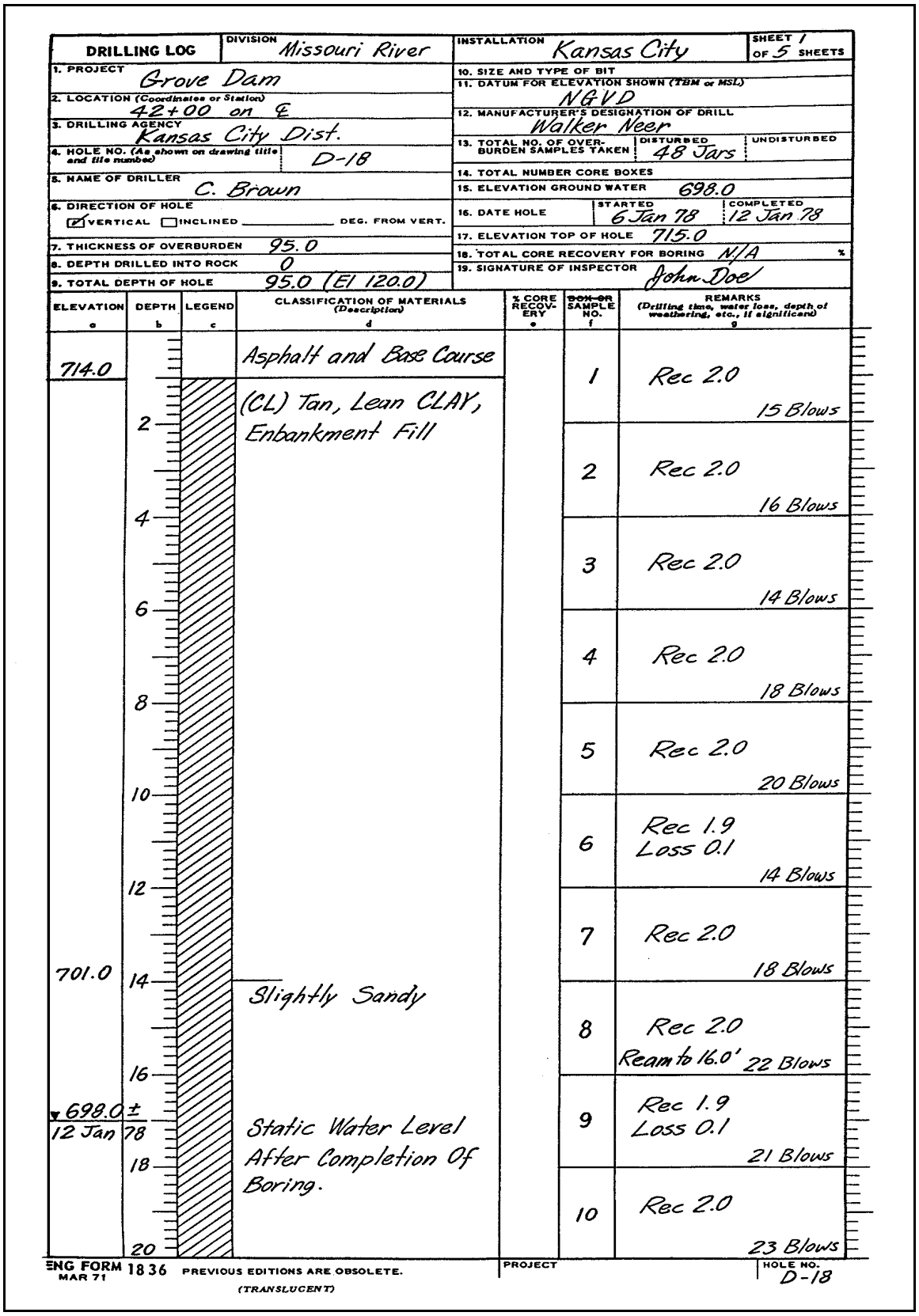
PROJECT: Raymond AFB, Airmens Dorm | HOLE NO. AD-6

Figure D-1. (Concluded)



DRILLING LOG

DIVISION: Missouri River
INSTALLATION: Kansas City
SHEET 1 OF 5 SHEETS

1. PROJECT: Grove Dam
2. LOCATION (Coordinates or Station): 42+00 on ℄
3. DRILLING AGENCY: Kansas City Dist.
4. HOLE NO. (As shown on drawing title and file number): D-18
5. NAME OF DRILLER: C. Brown
6. DIRECTION OF HOLE: ☑ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: 95.0
8. DEPTH DRILLED INTO ROCK: 0
9. TOTAL DEPTH OF HOLE: 95.0 (El 120.0)
10. SIZE AND TYPE OF BIT:
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NGVD
12. MANUFACTURER'S DESIGNATION OF DRILL: Walker Neer
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 48 Jars; UNDISTURBED
14. TOTAL NUMBER CORE BOXES:
15. ELEVATION GROUND WATER: 698.0
16. DATE HOLE: STARTED 6 Jan 78; COMPLETED 12 Jan 78
17. ELEVATION TOP OF HOLE: 715.0
18. TOTAL CORE RECOVERY FOR BORING: N/A %
19. SIGNATURE OF INSPECTOR: John Doe

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
714.0			Asphalt and Base Course		1	Rec 2.0 15 Blows
	2		(CL) Tan, Lean CLAY, Enbankment Fill		2	Rec 2.0 16 Blows
	4				3	Rec 2.0 14 Blows
	6				4	Rec 2.0 18 Blows
	8				5	Rec 2.0 20 Blows
	10				6	Rec 1.9 Loss 0.1 14 Blows
	12				7	Rec 2.0 18 Blows
701.0	14		Slightly Sandy		8	Rec 2.0 Ream to 16.0' 22 Blows
	16				9	Rec 1.9 Loss 0.1 21 Blows
▼ 698.0 ± 12 Jan 78	18		Static Water Level After Completion Of Boring.		10	Rec 2.0 23 Blows
	20					

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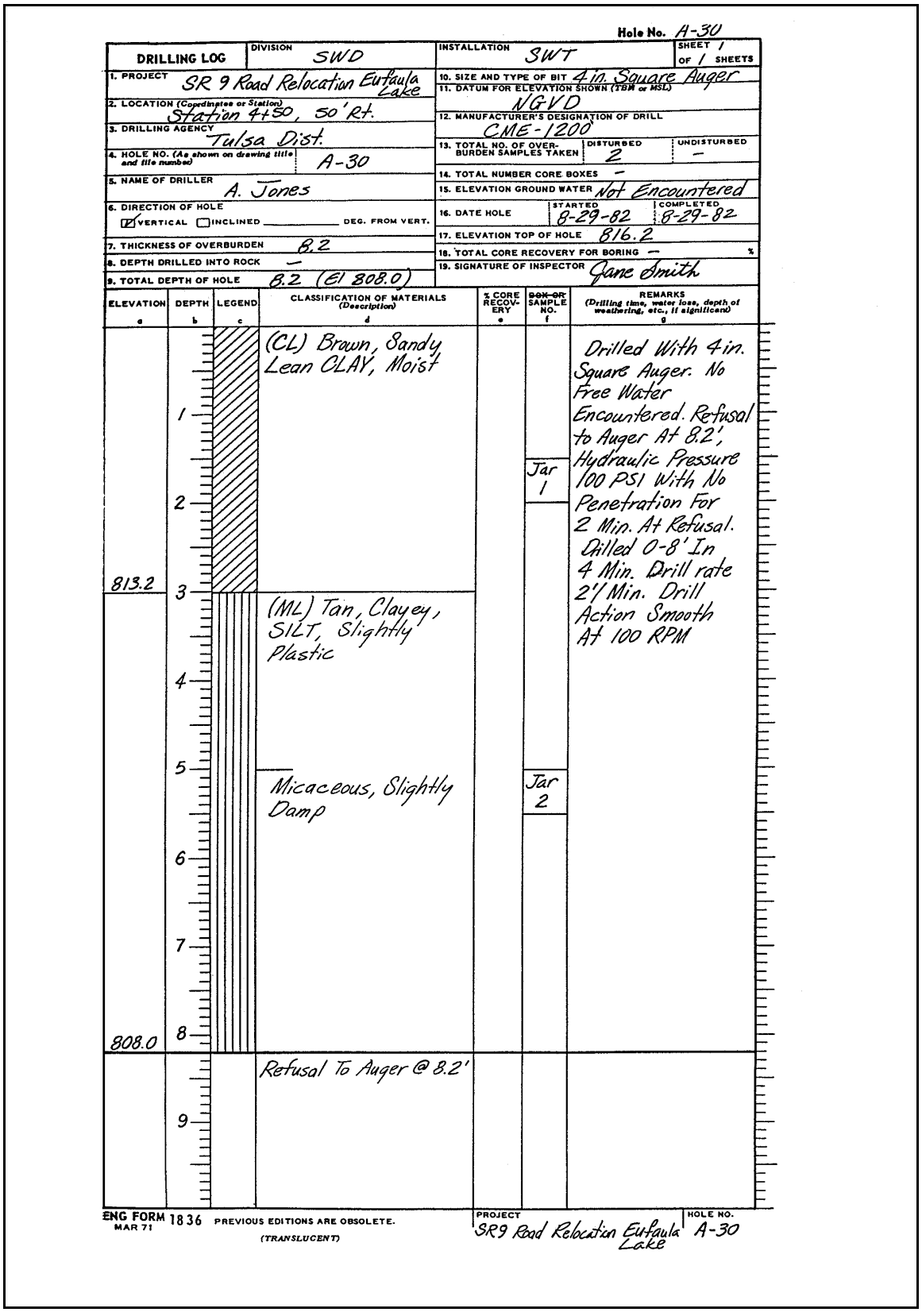
PROJECT

HOLE NO. D-18

Figure D-2. Example of Form 1836 for overburden, disturbed, and drive data



Hole No. A-30

DRILLING LOG | DIVISION SWD | INSTALLATION SWT | SHEET 1 OF 1 SHEETS

1. PROJECT: SR 9 Road Relocation Eufaula Lake
2. LOCATION (Coordinates or Station): Station 4+50, 50' Rt.
3. DRILLING AGENCY: Tulsa Dist.
4. HOLE NO. (As shown on drawing title and file number): A-30
5. NAME OF DRILLER: A. Jones
6. DIRECTION OF HOLE: ☑ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: 8.2
8. DEPTH DRILLED INTO ROCK: —
9. TOTAL DEPTH OF HOLE: 8.2 (El 808.0)
10. SIZE AND TYPE OF BIT: 4 in. Square Auger
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): NGVD
12. MANUFACTURER'S DESIGNATION OF DRILL: CME-1200
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 2; UNDISTURBED —
14. TOTAL NUMBER CORE BOXES: —
15. ELEVATION GROUND WATER: Not Encountered
16. DATE HOLE: STARTED 8-29-82; COMPLETED 8-29-82
17. ELEVATION TOP OF HOLE: 816.2
18. TOTAL CORE RECOVERY FOR BORING: — %
19. SIGNATURE OF INSPECTOR: Jane Smith

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		(CL) Brown, Sandy Lean CLAY, Moist			Drilled With 4 in. Square Auger. No Free Water Encountered. Refusal to Auger At 8.2', Hydraulic Pressure 100 PSI With No Penetration For 2 Min. At Refusal. Drilled 0-8' In 4 Min. Drill rate 2'/Min. Drill Action Smooth At 100 RPM
	2				Jar 1	
813.2	3		(ML) Tan, Clayey, SILT, Slightly Plastic			
	4					
	5		Micaceous, Slightly Damp		Jar 2	
	6					
	7					
808.0	8					
	9		Refusal To Auger @ 8.2'			

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PROJECT: SR9 Road Relocation Eufaula Lake | HOLE NO. A-30

Figure D-3. Example of Form 1836 for overburden, disturbed, and auger data

DRILLING LOG

DIVISION	SAD
INSTALLATION	SAS
SHEET	1 OF 1 SHEETS
1. PROJECT	Richard B. Russell Dam
2. LOCATION (Coordinates or Station)	X: 312,457 Y: 123,456
3. DRILLING AGENCY	SAS
4. HOLE NO. (As shown on drawing title and file number)	U-1
5. NAME OF DRILLER	J. Smith
6. DIRECTION OF HOLE	☑ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN	36.2
8. DEPTH DRILLED INTO ROCK	0
9. TOTAL DEPTH OF HOLE	36.2 (El 340.3)
10. SIZE AND TYPE OF BIT	6 in. Denison
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)	NGVD
12. MANUFACTURER'S DESIGNATION OF DRILL	Failing 1500
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED – UNDISTURBED 17
14. TOTAL NUMBER CORE BOXES	–
15. ELEVATION GROUND WATER	See Remarks
16. DATE HOLE	STARTED 3-16-75 COMPLETED 3-16-75
17. ELEVATION TOP OF HOLE	376.5
18. TOTAL CORE RECOVERY FOR BORING	N/A %
19. SIGNATURE OF INSPECTOR	Johnny Jones

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOV. FOR HAND PENE TSF	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			(ML) Reddish Brown, Slightly Clayey, SILT.			Fish Tailed To 2'. Drilled With 6 in. Denison Barrel With Inner Barrel Protruding 1 in. 100 % Recovery Except As Noted. Hand Penitrometer Made On Bottom Of Each Sample. No Changes In Drill Mud To Indicate Free Water.
				0.6	1	
	5			0.5	2	
				0.5	3	
				0.6	4	
	10			0.4	5	
				0.5	6	#6 Ran 2.0 Rec 1.6
	15			0.6	7	
				0.6	8	
				0.7	9	
	20			0.6	10	#10 Ran 2.0 Rec 1.8
				0.6	11	#11 Ran 2.0 Rec 1.6
	25		Red, Slightly Sandy	0.8	12	
				0.9	13	
				0.8	14	#14 Ran 2.0 Rec 1.2
	30			0.9	15	
				1.0	16	
340.3	35		Bottom Of Hole	0.9	17	Refusal At 36.2' No Recovery 36.0'-36.2'

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PROJECT Richard B. Russell Dam HOLE NO. U-1

Figure D-4. Example of Form 1836 for overburden, undisturbed, and Denison data

Hole No. AU-3

DRILLING LOG	DIVISION ORD	INSTALLATION Huntington	SHEET 1 OF 1 SHEETS
1. PROJECT Alum Creek Dam, Ohio		10. SIZE AND TYPE OF BIT 6 in. Auger & 5 in. Shelby	
2. LOCATION (Coordinates or Station) Sta. 2+50.0 5 D/S of E		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD	
3. DRILLING AGENCY ORH		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) AU-3		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED —	UNDISTURBED 3
5. NAME OF DRILLER C. Black		14. TOTAL NUMBER CORE BOXES —	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.		15. ELEVATION GROUND WATER Not Encountered	
		16. DATE HOLE STARTED 6 May 1981	COMPLETED 6 May 1981
7. THICKNESS OF OVERBURDEN —		17. ELEVATION TOP OF HOLE 952.4	
8. DEPTH DRILLED INTO ROCK —		18. TOTAL CORE RECOVERY FOR BORING N/A %	
9. TOTAL DEPTH OF HOLE 22.0 (El. 930.4)		19. SIGNATURE OF INSPECTOR William Boyd	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	~~% CORE RECOVERY~~ e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	5			Hand Penet.		Augered w/ 6 in. Helical Auger To 6, 10, And 20 Feet. Where 5 in. Shelby Tubes Were Pushed 24 in.
				1.0 TSF	U-1	
	10					Hand Penetrometer Taken On Lower End Of Each Sample
				1.6 TSF	U-2	
	15					Push 1 Ran 24" Rec 24"
						Push 2 Ran 24" Rec 24"
	20					Push 3 Ran 24" Rec 24"
930.4			Bottom Of Boring	2.0 TSF	U-3	

Note.
Description Of Materials Should Be Entered Into Column d Only After Completion Of Laboratory Testing.

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PROJECT Alum Creek Dam, Ohio | HOLE NO. AU-3

Figure D-5. Example of Form 1836 for overburden, undisturbed, Shelby, and auger data

Hole No. DC-4

DRILLING LOG | DIVISION South Pacific | INSTALLATION Los Angeles | SHEET 1 OF 42 SHEETS

1. PROJECT: PRADO DAM, CA.
2. LOCATION (Coordinates or Station): See Remarks
3. DRILLING AGENCY: Moff Drilling Co.
4. HOLE NO. (As shown on drawing title and file number): DC-4
5. NAME OF DRILLER: Horton
6. DIRECTION OF HOLE: ☑ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN: 5.0 (575.0)
8. DEPTH DRILLED INTO ROCK: 100.0
9. TOTAL DEPTH OF HOLE: 475.0
10. SIZE AND TYPE OF BIT: Diamond NWM
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MSL
12. MANUFACTURER'S DESIGNATION OF DRILL: Sullivan - 180
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 4 | UNDISTURBED
14. TOTAL NUMBER CORE BOXES: 14
15. ELEVATION GROUND WATER: See Remarks
16. DATE HOLE: STARTED 2/18/79 | COMPLETED 3/18/79
17. ELEVATION TOP OF HOLE: 575.0
18. TOTAL CORE RECOVERY FOR BORING: 99.4/99.5 %
19. SIGNATURE OF INSPECTOR: Jim Jones

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g — Blows/Ft
573.5	1		(CL) Brown, Sandy CLAY, Roots In Top 6", Moist.		1	Brown's Store; Hwy 36; 50' 15; Aprox 3500'; C-4
	2		(SC) Brown, Clayey, SAND, Fine To Medium, Moist		2	Drl w/ 1.1' x 4½" Rollar Rock Bit w/ Water Begin 1300 End 1350 — 19
	3				3	Ran 5.0' Set 5.3' of 4" Black Iron Pipe I w/ Saw Tooth End To 5.0' — 22
570.5	4					
570.0	5		Rock Frags TR		4	Ref At 5.0' — 50
	6		SANDSTONE - Mss Bdd, Sl, Mic, Med Hd To Hd, F To Med Gra, It Gr To Lt Br, Occ Blk Sh Ptgs, Num Hem Ptgs Upper 3' Of Core	Rec 84%	Box 1 Of 10 Boxes	Drl w/ 11.7 (10.3) NXM Bit # 1234 (V. Good) Shell # 5678 (New) Pull 1
	7		So To Med Hd, Vf, 0.6 LC			Drl Tools 21.7' WL 7.6' @ 1640 Began 1615 End 1635 Drl Time 20 Min Ran 5.2 Rec 3.8 Loss 1.4 U.L. 0.6 Water Pressure 50 psi Drl Action - Smooth 100 % DWR - 100 % CD 9.4'
	8		So, St Red	RQD 79%		
	9		Op, ½a Jt, 55°			Tape RQD 3.5'/4.4', = 0.79%
	10					

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PROJECT: Prado Dam, Ca. | HOLE NO. DC-4

Figure D-6. Example of Form 1836 for bedrock, disturbed, SPT, and core data (Continued)

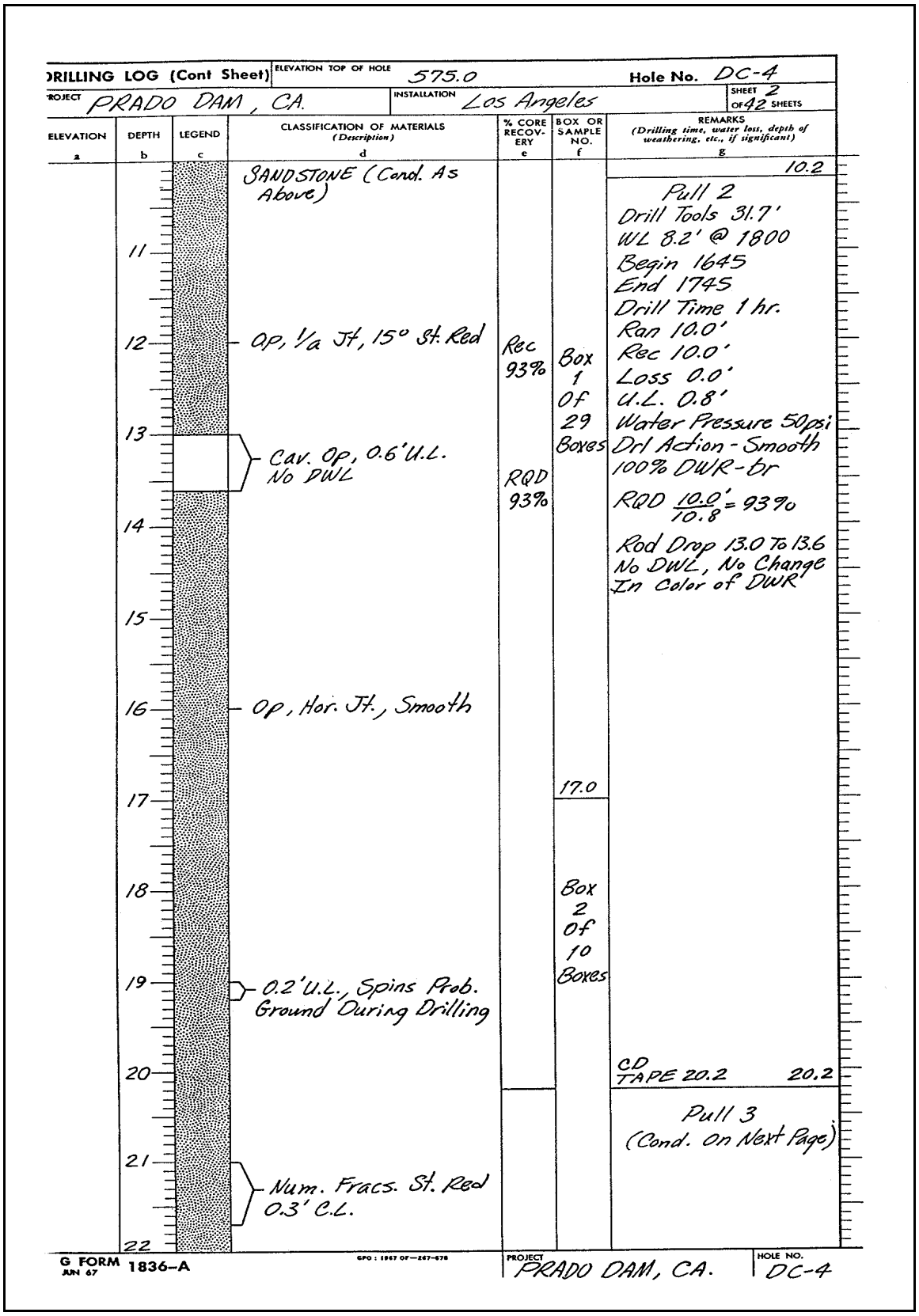
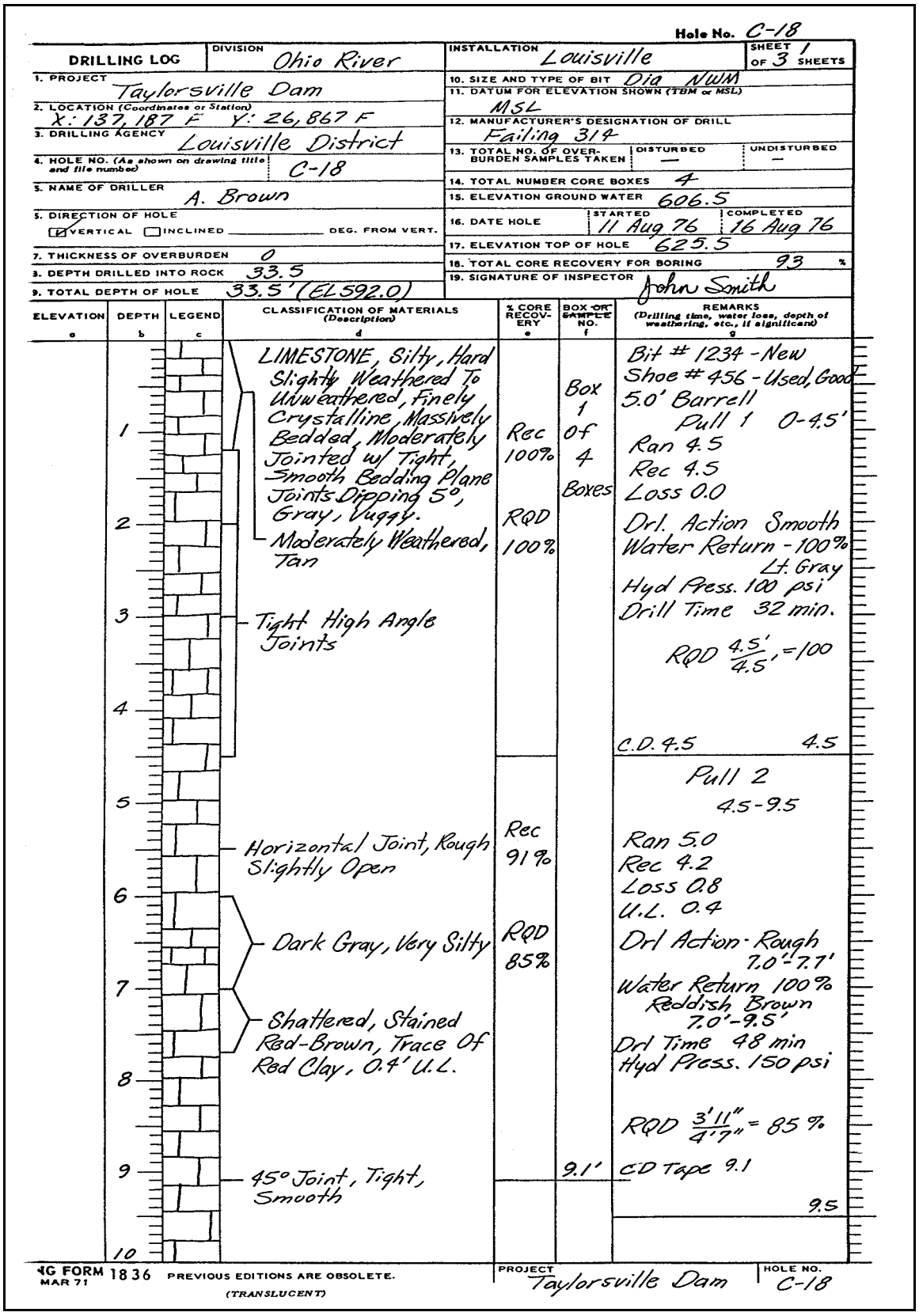


Figure D-6. (Concluded)



Hole No. C-18

DRILLING LOG | DIVISION Ohio River | INSTALLATION Louisville | SHEET 1 OF 3 SHEETS

1. PROJECT Taylorsville Dam
2. LOCATION (Coordinates or Station) X: 137,187 F Y: 26,867 F
3. DRILLING AGENCY Louisville District
4. HOLE NO. (As shown on drawing title and file number) C-18
5. NAME OF DRILLER A. Brown
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN 0
8. DEPTH DRILLED INTO ROCK 33.5
9. TOTAL DEPTH OF HOLE 33.5' (EL 592.0)
10. SIZE AND TYPE OF BIT Dia NWM
11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL
12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314
13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
14. TOTAL NUMBER CORE BOXES 4
15. ELEVATION GROUND WATER 606.5
16. DATE HOLE STARTED 11 Aug 76 COMPLETED 16 Aug 76
17. ELEVATION TOP OF HOLE 625.5
18. TOTAL CORE RECOVERY FOR BORING 93 %
19. SIGNATURE OF INSPECTOR John Smith

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		LIMESTONE, Silty, Hard Slightly Weathered To Unweathered, Finely Crystalline, Massively Bedded, Moderately Jointed w/ Tight, Smooth Bedding Plane Joints Dipping 5°, Gray, Vuggy.	Rec 100%	Box 1 of 4 Boxes	Bit # 1234 - New Shoe # 456 - Used, Good 5.0' Barrell Pull 1 0-4.5' Ran 4.5 Rec 4.5 Loss 0.0
	2		Moderately Weathered, Tan	RQD 100%		Drl. Action Smooth Water Return - 100% Lt. Gray Hyd Press. 100 psi Drill Time 32 min. RQD 4.5'/4.5' = 100
	3		Tight High Angle Joints			
	4					C.D. 4.5 4.5
	5			Rec 91%		Pull 2 4.5-9.5 Ran 5.0 Rec 4.2 Loss 0.8 U.L. 0.4
	6		Horizontal Joint, Rough Slightly Open			
	7		Dark Gray, Very Silty	RQD 85%		Drl Action - Rough 7.0'-7.7' Water Return 100% Reddish Brown 7.0'-9.5' Drl Time 48 min Hyd Press. 150 psi
	8		Shattered, Stained Red-Brown, Trace Of Red Clay, 0.4' U.L.			RQD 3'11"/4'7" = 85 %
	9		45° Joint, Tight, Smooth		9.1'	CD Tape 9.1 9.5
	10					

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PROJECT Taylorsville Dam | HOLE NO. C-18

Figure D-7. Example of Form 1836 for bedrock and core data (Sheet 1 of 3)

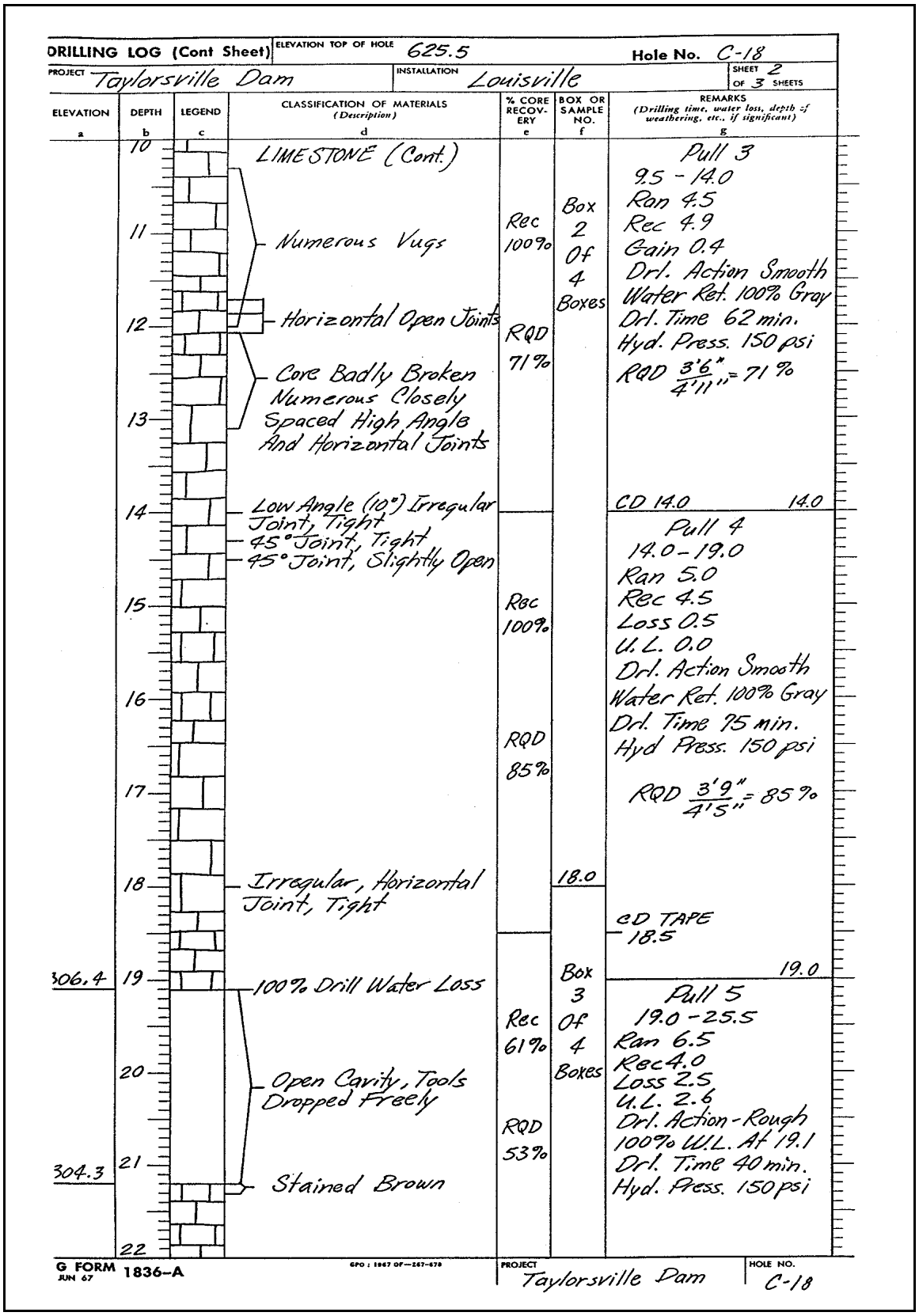


Figure D-7. (Sheet 2 of 3)

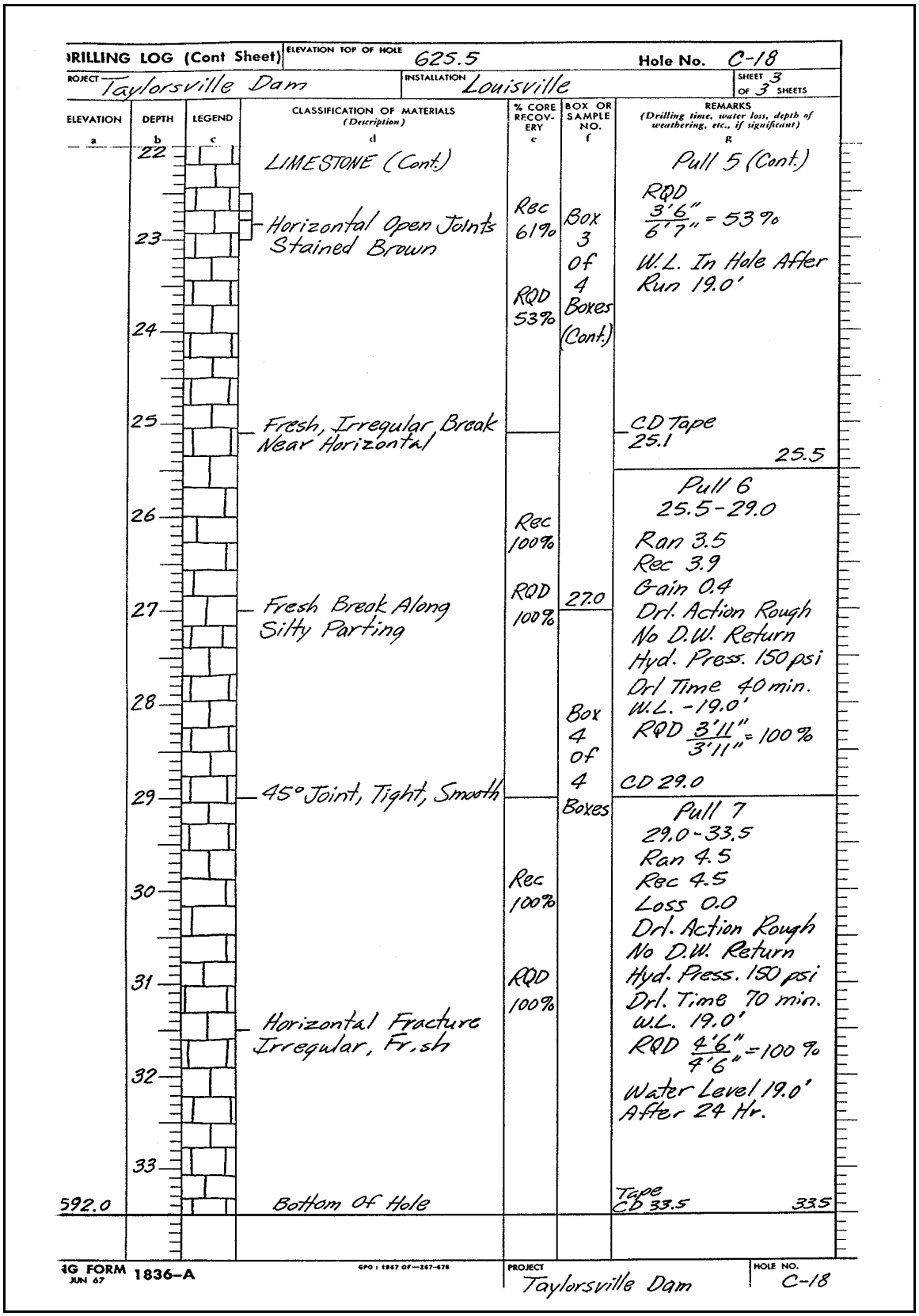
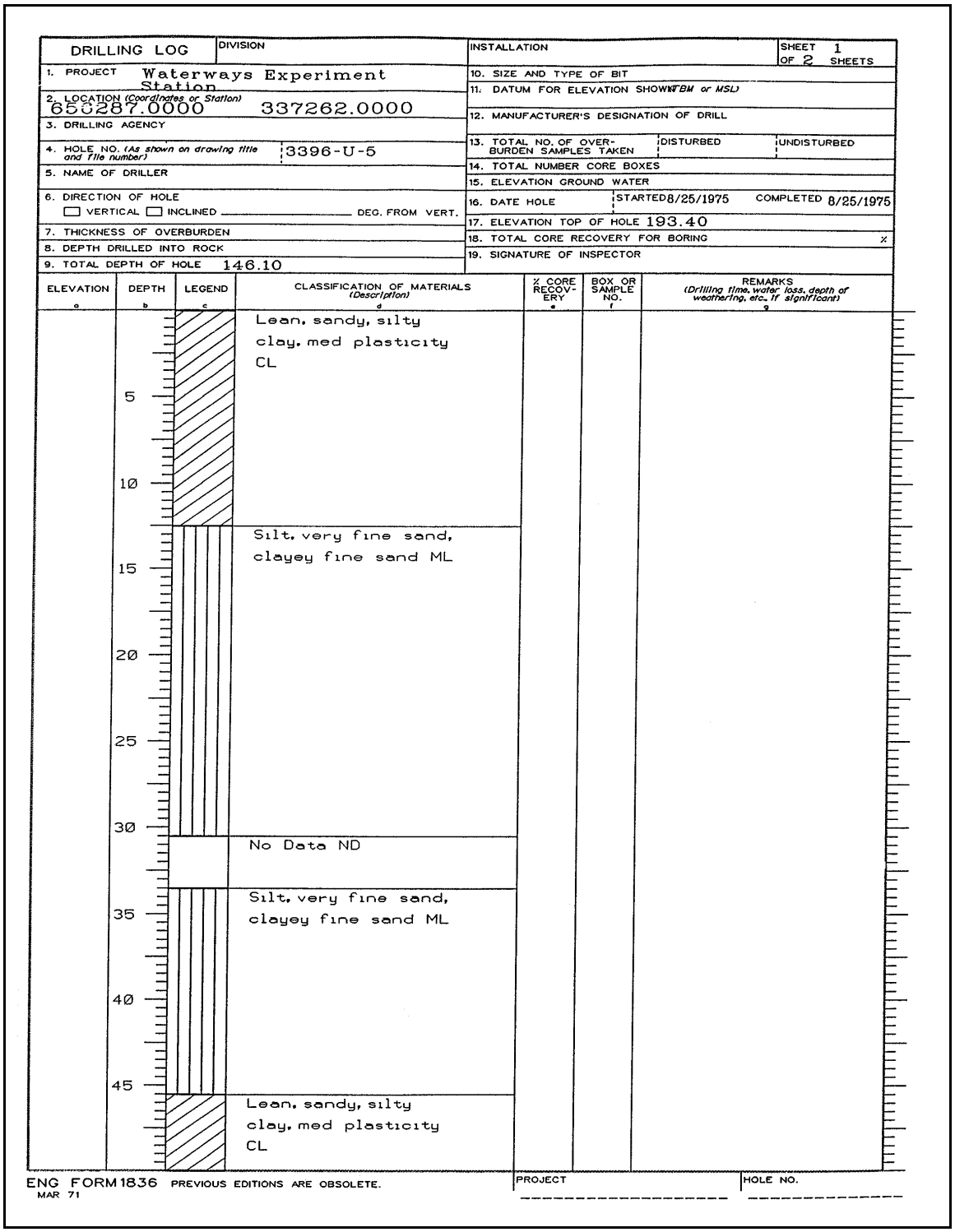


Figure D-7. (Sheet 3 of 3)



DRILLING LOG | DIVISION | INSTALLATION | SHEET 1 OF 2 SHEETS

1. PROJECT: Waterways Experiment Station
2. LOCATION (Coordinates or Station): 656287.0000 337262.0000
3. DRILLING AGENCY
4. HOLE NO. (As shown on drawing title and file number): 3396-U-5
5. NAME OF DRILLER
6. DIRECTION OF HOLE: ☐ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE 146.10
10. SIZE AND TYPE OF BIT
11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
12. MANUFACTURER'S DESIGNATION OF DRILL
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN | DISTURBED | UNDISTURBED
14. TOTAL NUMBER CORE BOXES
15. ELEVATION GROUND WATER
16. DATE HOLE STARTED 8/25/1975 COMPLETED 8/25/1975
17. ELEVATION TOP OF HOLE 193.40
18. TOTAL CORE RECOVERY FOR BORING %
19. SIGNATURE OF INSPECTOR

ELEVATION (a)	DEPTH (b)	LEGEND (c)	CLASSIFICATION OF MATERIALS (Description) (d)	% CORE RECOVERY (e)	BOX OR SAMPLE NO. (f)	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) (g)
	5		Lean, sandy, silty clay, med plasticity CL			
	10					
	15		Silt, very fine sand, clayey fine sand ML			
	20					
	25					
	30		No Data ND			
	35		Silt, very fine sand, clayey fine sand ML			
	40					
	45		Lean, sandy, silty clay, med plasticity CL			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. | PROJECT _____ | HOLE NO. _____

Figure D-8. Foundation boring in which geotechnical data were entered into the BLDM, exported to Intergraph Insight, and printed in the ENG FORM 1836 format (Continued)

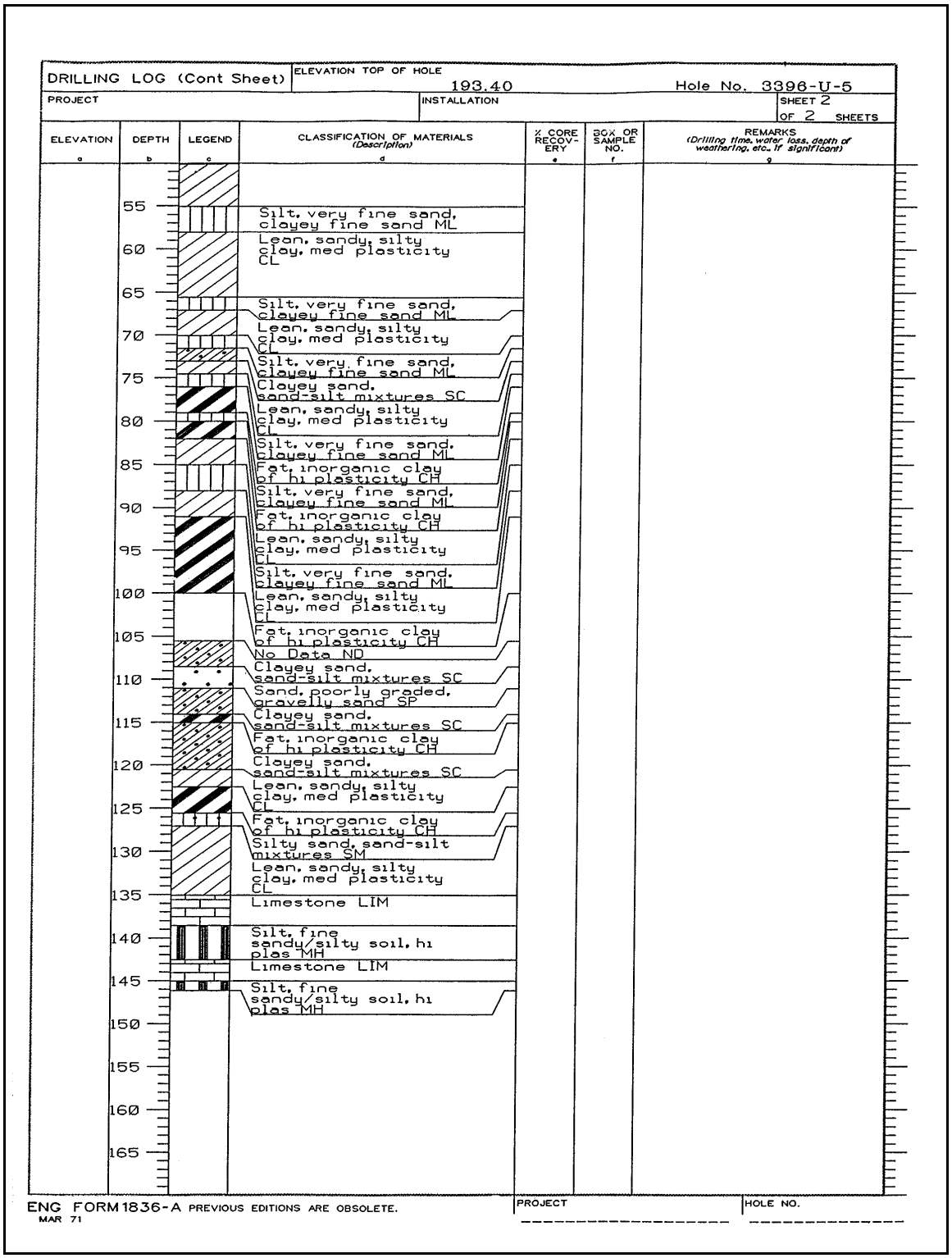


Figure D-8. (Concluded)